

## Chun-Yen Chang, Ph.D.

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**Chun-Yen Chang** is a science education scholar in Taiwan. Currently, he serves as National Taiwan Normal University (NTNU) Chair Professor, Director of Science Education Center (NTNU), Professor of the Graduate Institute of Science Education and the Department of Earth Sciences (NTNU). Over the past few years, he has been a Visiting Professor at the Taipei Medical University, The Education University of Hong Kong, and the Paris 8 University. His highest qualification is a PhD, awarded by University of Texas in Austin in 1996.

Dr. Chang now is the Editor-in-Chief of the *Eurasia Journal of Mathematics, Science and Technology Education*, and the associate editor for the *Journal of Geosciences Education*. He is also on the Editorial Board of five SSCI-level journals: (1) *British Journal of Educational Technology* (educational technology); (2) *Studies in Science Education* (science education); (3) *Learning, Media & Technology* (learning technology); (4) *Eurasia Journal of Mathematics, Science and Technology Education* (STEM education); (5) *Journal of Science Education and Technology* (science education & technology). Since 1997, he has participated in more than 90 Ministry of Science Technology (MOST) projects, and serves as a long-term project reviewer of the MOST's Department of International Cooperation and Science Education. From 2011-2016, he was leading another major project, sponsored by the Taiwan Ministry of Education, to establish a "Center for Research Excellence in Science Education (CRESE)," under the "Aim for the Top University Project." As a representative of NTNU's Science Education Center, Dr. Chang also joined the European Union's Open Science Resources project, one of the two subprojects for non-EU areas and review research projects by Israel Science Foundation and South Korea's National Research Foundation. In 2015 and 2016, Dr. Chang joined Complex Systems Digital Campus (CS-DC) network. He also serves on the Expert Panel Member of NMC Horizon Report (K-12 Edition & 2017 Horizon Project Higher Education) and Adviser of the Foundation for Information Technology Education and Development (FIT-ED) and Digital Learning for Development (DL4D) Project.

Dr. Chang's major research interests include science education, e-Learning, interdisciplinary science learning, and science communication. He has authored and co-authored more than 100 articles, from which nearly 90% articles are indexed in the Science/Social Science Citation Index (SCI/SSCI) database.

### Important Academic Awards

1. **2013:** The 57<sup>th</sup> Academic Award of Ministry of Education (Social Sciences)
2. **2013:** National Science Council 2013 Award for Excellent Contributions in Technology Transfer
3. **2003, 2009, & 2012:** National Science Council Outstanding Research Award (Science Education)
4. **2008:** "Science 50" -Scientific Achievements of the National Science Council 50<sup>th</sup> Anniversary (Science Education)

### Significant Publications (\*Corresponding author)

1. Chang, C. Y.\* & Lin, P. L. (2017). The relationship between science achievement and self-concept among gifted students from the Third International Earth Science Olympiad. *Eurasia Journal of Mathematics Science and Technology Education*, 13(7), 3993-4007. (SSCI)
2. Liou, W. K., Bhagat, K. K. & Chang, C. Y.\* (2016). Beyond the flipped classroom: A Highly Interactive Cloud-classroom (HIC) embedded into basic materials science courses. *Journal of Science Education and Technology*, 25(3), 460-473. (SCI) (SSCI)
3. Chien, Y. T., Chang, Y. H., & Chang, C. Y.\* (2016). Do we click in the right way? A meta-analytic review of clicker-integrated instruction. *Educational Research Review*, 17, 1-18. (SSCI)
4. Wu, L. Y., Chang, C. Y.\*, Liu, H. H., Wu, P. H., Lei, Y. C. & Lu, H. Y. (2015). Piloting a collaboration between education and broadcast journalism in Taiwan. *Science Communication*, 37(4), 542-548. (SSCI)
5. Rundgren, C. J., Chang Rundgren, S. N., Tseng, Y. H., Lin Pei-Ling, & Chang, C. Y.\* (2012). Are you SLiM? – Developing an instrument for civic scientific literacy measurement (SLiM) based on media coverage. *Public Understanding of Science*, 21(6), 759-773. (SSCI).